

TECHNICAL DATA SHEET



TMH

WATER COOLED CHILLER
WITH CENTRIFUGAL
COMPRESSORS FOR
INDOOR INSTALLATION



TMH 200 - 2.500 kW

TMH

Water cooled chiller with centrifugal compressors for indoor installation



Centrifugal compressors
Flooded evaporator (R134a)
Dry expansion evaporator (HFO-1234ze)

R134a

HFO
1234ze

General Description

Available on several models equipped with one or more centrifugal compressors, dimensioned to be used with refrigerant type R134a or with the new HFO-1234ze low GWP refrigerant.

The units of the TMH series are assembled on a strong self-supporting metal screwed and welded structure, painted with epoxy powder with anti-rust coating for outdoor installation.

All units are supplied completely wired and ready to be connected to the user's plant. Prior to delivery every machine is submitted to a performance test, with intervention tests of all the safety systems and components installed.

Each unit is available with low-speed fans and compressor sound insulation kit (Low Noise LN version or Super Low Noise LLN) for installation in areas where sound levels must be kept to a minimum.

Typical units dimensions

Length: from 2.800 to 6.000 mm

Width: from 1.000 to 2.250 mm

Height: from 1.830 to 2.100 mm

Operating Weight: from 1.841 kg to 10.236 kg



2.800



6.000



Length from 2.800 mm to 6.000 mm

TMH for Dry Cooler connection

R134a

Water cooled chiller with centrifugal compressors for indoor installation

TMH for Dry Cooler connection		TMH 1A 200 DC	TMH 1A 250 DC	TMH 1A 300 DC	TMH 1B 350 DC	TMH 1B 400 DC	TMH 2A 500 DC
CHILLER PERFORMANCE							
Refrigerant		R134a	R134a	R134a	R134a	R134a	R134a
Total cooling capacity	kW	200	250	300	350	400	500
Nominal power input	kW	51,9	63,6	78,9	91,7	106,5	127,2
E.E.R.	Coef.	3,85	3,93	3,80	3,82	3,76	3,93
Energy class		D	D	E	E	E	D
E.S.E.E.R.	Coef.	7,52	7,78	7,83	7,56	7,68	8,01
Noise Pressure Level	dB(A)	55,00	55,00	55,00	59,00	59,00	59,00
Distance	m	10,00	10,00	10,00	10,00	10,00	10,00
WORKING CONDITIONS							
Compressors type (*1)	Type	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free
Compressors number	n°	1	1	1	1	1	2
Evaporator type (*3)	Type	FL	FL	FL	FL	FL	FL
Evap. inlet water temperature	°C	12,0	12,0	12,0	12,0	12,0	12,0
Evap. outlet water temperature	°C	6,0	6,0	6,0	6,0	6,0	6,0
Condenser type (*2)	Type	S&T	S&T	S&T	S&T	S&T	S&T
Inlet water condensing temperature	°C	39,00	39,00	39,00	39,00	39,00	39,00
Outlet water condensing temperature	°C	45,00	45,00	45,00	45,00	45,00	45,00
Power circuit voltage	V/Ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
Control circuit voltage	V/Ph/Hz	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
Total power input	kW	51,9	63,6	78,9	91,7	106,5	127,2
Total running current	A	83,3	101,0	124,1	150,9	174,1	202,0
Total max current	A	140,0	140,0	140,0	210,0	210,0	280,0
Total starting current	A	5,0	5,0	5,0	5,0	5,0	106,0
DIMENSIONS							
Length with cabinet	mm	2800	2800	2800	3000	3000	3400
Width	mm	1000	1000	1000	1000	1000	1250
Height	mm	1630	1630	1630	1830	1830	2100
Shipping weight	kg	1790	2080	2170	2300	2560	3050
Operating weight	kg	1841	2149	2254	2396	2673	3175
(*1) Oil Free: Centrifugal Oil Free Compressor							
(*2) S&T: Shell and tube							
(*3) FL: Flooded							

TMH for Dry Cooler connection

Water cooled chiller with centrifugal compressors for indoor installation

TMH 2A 600 DC	TMH 2B 700 DC	TMH 2B 800 DC	TMH 3A 900 DC	TMH 3B 1000 DC	TMH 3B 1100 DC	TMH 3B 1200 DC	TMH 3B 1300 DC	TMH 4B 1400 DC	TMH 4B 1600 DC	TMH 5B 1800 DC
R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
600	700	800	900	1000	1100	1200	1300	1400	1600	1800
157,8	183,4	213,0	236,7	263,4	288,3	319,5	363,3	366,8	426,0	471,5
3,80	3,82	3,76	3,80	3,80	3,82	3,76	3,58	3,82	3,76	3,82
E	E	E	E	E	E	E	E	E	E	E
7,83	7,93	7,68	8,02	7,75	7,85	7,92	7,93	7,93	7,85	7,94
59,00	63,00	63,00	60,00	64,00	64,00	64,00	64,00	66,00	66,00	66,00
10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00
Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free
2	2	2	3	3	3	3	3	4	4	5
FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL
12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0
6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
39,00	39,00	39,00	39,00	39,00	39,00	39,00	39,00	39,00	39,00	39,00
45,00	45,00	45,00	45,00	45,00	45,00	45,00	45,00	45,00	45,00	45,00
400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
157,8	183,4	213,0	236,7	263,4	288,3	319,5	363,3	366,8	426,0	471,5
248,2	301,8	348,2	372,3	434,4	473,1	522,3	590,7	603,6	696,4	774,5
280,0	420,0	420,0	420,0	630,0	630,0	630,0	630,0	840,0	840,0	1050,0
129,1	155,9	179,1	253,2	294,6	320,4	353,2	398,8	457,7	527,3	624,6
3400	3400	3400	4000	4000	4000	4000	4000	5700	5700	6000
1250	1250	1250	1600	1600	1600	1600	1600	1600	1600	1600
2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100
3470	3590	3900	4430	4970	5090	5270	5300	6660	7200	7770
3635	3780	4114	4668	5239	5385	5601	5627	7048	7641	8261

TMH for Dry Cooler connection

R134a

Water cooled chiller with centrifugal compressors for indoor installation

TMH for Dry Cooler connection		TMH 5B 2000 DC	TMH 6B 2200 DC	TMH 6B 2400 DC			
CHILLER PERFORMANCE							
Refrigerant		R134a	R134a	R134a			
Total cooling capacity	Kw	2000	2200	2400			
Nominal power input	Kw	532,5	576,6	639,0			
E.E.R.	Coef.	3,76	3,82	3,76			
Energy class		E	E	E			
E.S.E.E.R.	Coef.	7,97	8,01	7,92			
Noise Pressure Level	dB(A)	66,00	67,00	67,00			
Distance	m	10,00	10,00	10,00			
WORKING CONDITIONS							
Compressors type (*1)	Type	Oil Free	Oil Free	Oil Free			
Compressors number	n°	5	6	6			
Evaporator type (*3)	Type	FL	FL	FL			
Evap. inlet water temperature	°C	12,0	12,0	12,0			
Evap. outlet water temperature	°C	6,0	6,0	6,0			
Condenser type (*2)	Type	S&T	S&T	S&T			
Inlet water condensing temperature	°C	39,00	39,00	39,00			
Outlet water condensing temperature	°C	45,00	45,00	45,00			
Power circuit voltage	V/Ph/Hz	400-3-50	400-3-50	400-3-50			
Control circuit voltage	V/Ph/Hz	230-1-50	230-1-50	230-1-50			
Total power input	Kw	532,5	576,6	639,0			
Total running current	A	870,5	946,2	1044,6			
Total max current	A	1050,0	1260,0	1260,0			
Total starting current	A	701,4	793,5	875,5			
DIMENSIONS							
Length with cabinet	mm	6000	6000	6000			
Width	mm	1600	1600	1600			
Height	mm	2100	2100	2100			
Shipping weight	kg	8700	9180	9560			
Operating weight	kg	9258	9790	10236			
(*1) Oil Free: Centrifugal Oil Free Compressor (*2) S&T: Shell and tube (*3) FL: Flooded							



TMH for Dry Cooler connection



Water cooled chiller with centrifugal compressors for indoor installation

TMH for Dry Cooler connection		TMH 1Z 200 DC	TMH 1Z 250 DC	TMH 1Z 300 DC	TMH 1Z 350 DC	TMH 2Z 400 DC	TMH 2Z 500 DC
CHILLER PERFORMANCE							
Refrigerant		HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze
Total cooling capacity	kW	200	250	300	350	400	500
Nominal power input	kW	52,4	61,9	76,8	92,9	104,8	123,8
E.E.R.	Coef.	3,82	4,04	3,91	3,77	3,82	4,04
Energy class		E	D	D	E	E	D
E.S.E.E.R.	Coef.	7,62	7,98	8,18	8,34	8,37	8,43
Noise Pressure Level	dB(A)	58,00	58,00	58,00	58,00	62,00	62,00
Distance	m	10,00	10,00	10,00	10,00	10,00	10,00
WORKING CONDITIONS							
Compressors type (*1)	Type	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free
Compressors number	n°	1	1	1	1	1	2
Evaporator type (*2)	Type	S&T	S&T	S&T	S&T	S&T	S&T
Evap. inlet water temperature	°C	12,0	12,0	12,0	12,0	12,0	12,0
Evap. outlet water temperature	°C	6,0	6,0	6,0	6,0	6,0	6,0
Condenser type (*2)	Type	S&T	S&T	S&T	S&T	S&T	S&T
Inlet water condensing temperature	°C	39,00	39,00	39,00	39,00	39,00	39,00
Outlet water condensing temperature	°C	45,00	45,00	45,00	45,00	45,00	45,00
Power circuit voltage	V/Ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
Control circuit voltage	V/Ph/Hz	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
Total power input	kW	52,4	61,9	76,8	92,9	104,8	123,8
Total running current	A	88,0	102,7	125,9	151,1	176,0	205,4
Total max current	A	210,0	210,0	210,0	210,0	420,0	420,0
Total starting current	A	5,0	5,0	5,0	5,0	93,0	107,7
DIMENSIONS							
Length with cabinet	mm	4200	4200	4200	4200	4600	4600
Width	mm	1000	1000	1000	1000	1000	1250
Height	mm	1630	1630	1630	1830	1830	2100
Shipping weight	kg	2440	2470	2590	2740	3270	3520
Operating weight	kg	2588	2618	2748	2953	3497	3871
(*1) Oil Free: Centrifugal Oil Free Compressor (*2) S&T: Shell and tube							

TMH for Dry Cooler connection

Water cooled chiller with centrifugal compressors for indoor installation

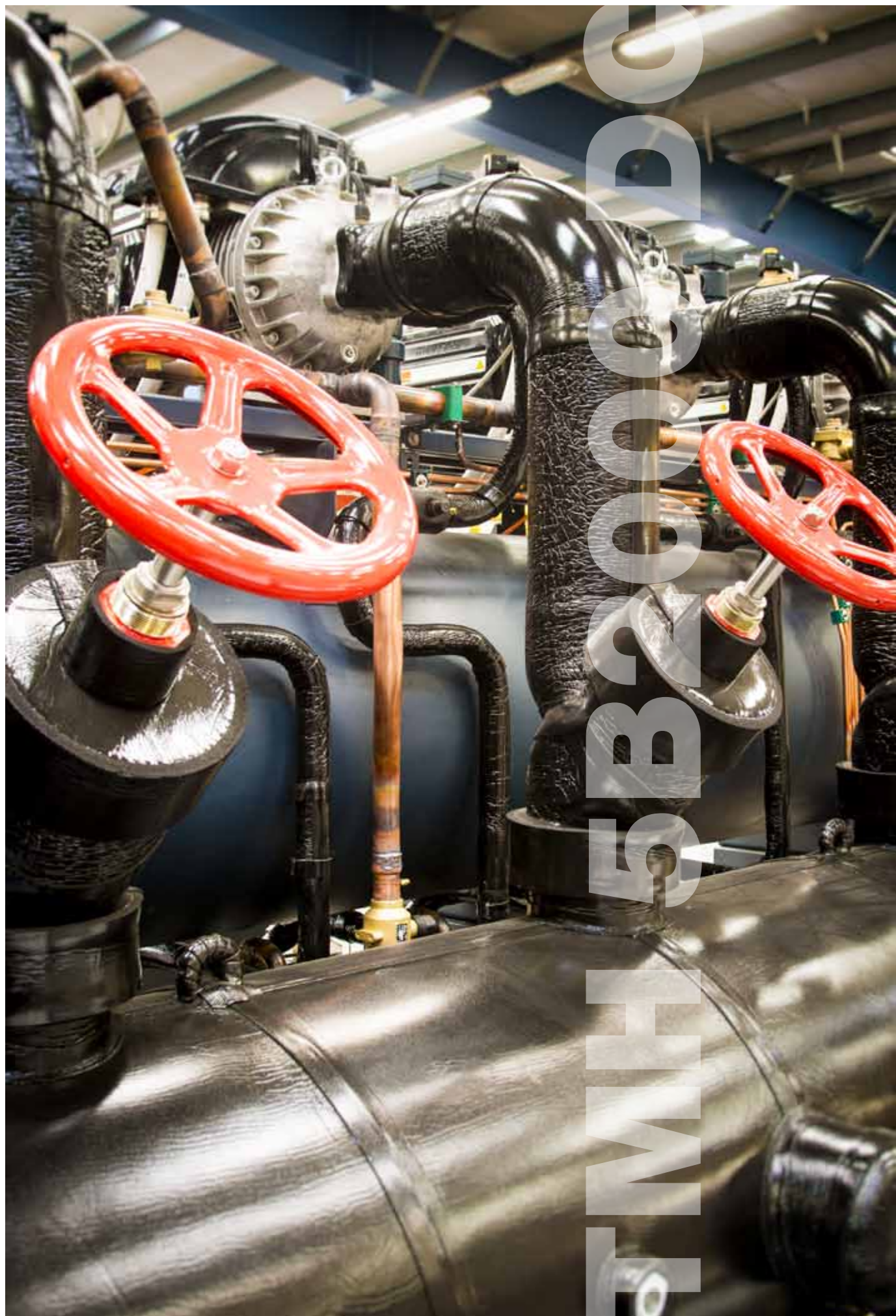
TMH 2Z 600 DC	TMH 2Z 700 DC	TMH 3Z 800 DC	TMH 3Z 900 DC	TMH 3Z 1000 DC	TMH 3Z 1050 DC	TMH 4Z 1200 DC	TMH 4Z 1300 DC	TMH 4Z 1400 DC	TMH 6Z 1600 DC	TMH 6Z 1800 DC
HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze
600	700	800	900	1000	1050	1200	1300	1400	1600	1800
154,4	185,8	198,6	231,6	276,6	278,7	308,8	356,4	371,6	397,2	463,2
3,89	3,77	4,03	3,89	3,62	3,77	3,89	3,65	3,77	4,03	3,89
D	E	D	D	E	E	D	E	E	D	D
8,18	8,34	8,47	8,52	8,56	8,33	8,48	8,51	8,54	8,58	8,56
62,00	62,00	63,00	63,00	63,00	63,00	65,00	65,00	65,00	66,00	66,00
10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00
Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free
2	2	3	3	3	3	4	4	4	6	6
S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0
6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
39,00	39,00	39,00	39,00	39,00	39,00	39,00	39,00	39,00	39,00	39,00
45,00	45,00	45,00	45,00	45,00	45,00	45,00	45,00	45,00	45,00	45,00
400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
154,4	185,8	198,6	231,6	276,6	278,7	308,8	356,4	371,6	397,2	463,2
253,0	302,2	327,9	379,5	450,0	453,3	506,0	580,4	604,4	655,8	759,0
420,0	420,0	630,0	630,0	630,0	630,0	840,0	840,0	840,0	1260,0	1260,0
131,5	156,1	223,6	258,0	305,0	307,2	384,5	440,3	458,3	551,5	637,5
4600	4600	4600	4600	4600	5000	5000	5000	5000	6000	6000
1250	1250	1250	1600	1600	1600	2250	2250	2250	2250	2250
2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100
3610	3660	4320	4400	4690	4770	5820	5890	6050	7690	7690
3961	4016	4864	4947	5271	5334	6522	6617	6794	8799	8799

TMH for Dry Cooler connection

HFO
1234ze

Water cooled chiller with centrifugal compressors for indoor installation

TMH for Dry Cooler connection		TMH 6Z 1900 DC	TMH 6Z 2000 DC	TMH 6Z 2100 DC			
CHILLER PERFORMANCE							
Refrigerant		HFO-1234ze	HFO-1234ze	HFO-1234ze			
Total cooling capacity	kW	1900	2000	2100			
Nominal power input	kW	504,0	553,2	557,4			
E.E.R.	Coef.	3,77	3,62	3,77			
Energy class		E	E	E			
E.S.E.E.R.	Coef.	8,56	8,54	8,47			
Noise Pressure Level	dB(A)	66,00	66,00	66,00			
Distance	m	10,00	10,00	10,00			
WORKING CONDITIONS							
Compressors type (*1)	Type	Oil Free	Oil Free	Oil Free			
Compressors number	n°	6	6	6			
Evaporator type (*2)	Type	S&T	S&T	S&T			
Evap. inlet water temperature	°C	12,0	12,0	12,0			
Evap. outlet water temperature	°C	6,0	6,0	6,0			
Condenser type (*2)	Type	S&T	S&T	S&T			
Inlet water condensing temperature	°C	39,00	39,00	39,00			
Outlet water condensing temperature	°C	45,00	45,00	45,00			
Power circuit voltage	V/Ph/Hz	400-3-50	400-3-50	400-3-50			
Control circuit voltage	V/Ph/Hz	230-1-50	230-1-50	230-1-50			
Total power input	kW	504,0	553,2	557,4			
Total running current	A	822,6	900,0	906,6			
Total max current	A	1260,0	1260,0	1260,0			
Total starting current	A	690,5	755,0	760,5			
DIMENSIONS							
Length with cabinet	mm	6000	6000	6000			
Width	mm	2250	2250	2250			
Height	mm	2100	2100	2100			
Shipping weight	kg	7720	8310	8210			
Operating weight	kg	8815	9472	9339			
(*1) Oil Free: Centrifugal Oil Free Compressor (*2) S&T: Shell and tube							



TMH for Water Tower connection

R134a

Water cooled chiller with centrifugal compressors for indoor installation

TMH for Water Tower connection		TMH 1A 200 WT	TMH 1A 250 WT	TMH 1A 300 WT	TMH 1B 350 WT	TMH 1B 400 WT	TMH 2A 500 WT
CHILLER PERFORMANCE							
Refrigerant		R134a	R134a	R134a	R134a	R134a	R134a
Total cooling capacity	kW	200	250	300	350	400	500
Nominal power input	kW	38,0	47,7	59,4	61,3	72,1	95,4
E.E.R.	Coef.	5,26	5,24	5,05	5,71	5,55	5,24
Energy class		A	A	A	A	A	A
E.S.E.E.R.	Coef.	7,44	7,70	7,73	8,09	8,27	7,91
Noise Pressure Level	dB(A)	55,00	55,00	55,00	59,00	59,00	59,00
Distance	m	10,00	10,00	10,00	10,00	10,00	10,00
WORKING CONDITIONS							
Compressors type (*1)	Type	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free
Compressors number	n°	1	1	1	1	1	2
Evaporator type (*3)	Type	FL	FL	FL	FL	FL	FL
Evap. inlet water temperature	°C	12,0	12,0	12,0	12,0	12,0	12,0
Evap. outlet water temperature	°C	6,0	6,0	6,0	6,0	6,0	6,0
Condenser type (*2)	Type	S&T	S&T	S&T	S&T	S&T	S&T
Inlet water condensing temperature	°C	29,00	29,00	29,00	29,00	29,00	29,00
Outlet water condensing temperature	°C	35,00	35,00	35,00	35,00	35,00	35,00
Power circuit voltage	V/Ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
Control circuit voltage	V/Ph/Hz	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
Total power input	kW	38,0	47,7	59,4	61,3	72,1	95,4
Total running current	A	57,8	73,9	93,0	103,8	120,6	147,8
Total max current	A	140,0	140,0	140,0	210,0	210,0	280,0
Total starting current	A	5,0	5,0	5,0	5,0	5,0	80,3
DIMENSIONS							
Length with cabinet	mm	2800	2800	2800	3000	3000	3400
Width	mm	1000	1000	1000	1000	1000	1250
Height	mm	1630	1630	1630	1830	1830	2100
Shipping weight	kg	1790	2080	2170	2300	2560	3050
Operating weight	kg	1841	2149	2254	2397	2673	3176
(*1) Oil Free: Centrifugal Oil Free Compressor							
(*2) S&T: Shell and tube							
(*3) FL: Flooded							

TMH for Water Tower connection

Water cooled chiller with centrifugal compressors for indoor installation

TMH 2A 600 WT	TMH 2B 700 WT	TMH 2B 800 WT	TMH 3A 900 WT	TMH 3B 1000 WT	TMH 3B 1100 WT	TMH 3B 1200 WT	TMH 3B 1300 WT	TMH 4B 1400 WT	TMH 4B 1600 WT	TMH 5B 1800 WT
R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
600	700	800	900	1000	1100	1200	1300	1400	1600	1800
118,8	122,6	144,2	178,2	174,6	193,8	216,3	243,9	245,2	288,4	316,0
5,05	5,71	5,55	5,05	5,73	5,68	5,55	5,33	5,71	5,55	5,70
A	A	A	A	A	A	A	A	A	A	A
7,73	8,09	8,27	7,88	8,41	8,53	8,59	8,33	8,38	8,54	8,57
59,00	63,00	63,00	60,00	64,00	64,00	64,00	64,00	66,00	66,00	66,00
10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00
Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free
2	2	2	3	3	3	3	3	4	4	5
FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL
12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0
6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
29,00	29,00	29,00	29,00	29,00	29,00	29,00	29,00	29,00	29,00	29,00
35,00	35,00	35,00	35,00	35,00	35,00	35,00	35,00	35,00	35,00	35,00
400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
118,8	122,6	144,2	178,2	174,6	193,8	216,3	243,9	245,2	288,4	316,0
186,0	207,6	241,2	279,0	297,3	326,7	361,8	404,4	415,2	482,4	534,0
280,0	420,0	420,0	420,0	630,0	630,0	630,0	630,0	840,0	840,0	1050,0
97,1	117,2	133,7	189,2	219,6	239,8	262,4	288,2	341,6	391,1	466,2
3400	3400	3400	4000	4000	4000	4000	4000	5700	5700	6000
1250	1250	1250	1600	1600	1600	1600	1600	1600	1600	1600
2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100
3470	3590	3900	4440	4970	5090	5280	5310	6660	7210	7770
3635	3780	4114	4679	5239	5386	5612	5637	7049	7652	8262

TMH for Water Tower connection

Water cooled chiller with centrifugal compressors for indoor installation

TMH for Water Tower connection		TMH 5B 2000 WT	TMH 6B 2200 WT	TMH 6B 2400 WT	TMH 1C 500 WT	TMH 1D 600 WT	TMH 2C 1050 WT
CHILLER PERFORMANCE							
Refrigerant		R134a	R134a	R134a	R134a	R134a	R134a
Total cooling capacity	kW	2000	2200	2400	500	600	1050
Nominal power input	kW	360,5	387,6	432,0	92,9	106,8	200,6
E.E.R.	Coef.	5,55	5,68	5,56	5,38	5,62	5,23
Energy class		A	A	A	A	A	A
E.S.E.E.R.	Coef.	8,48	8,53	8,59	8,46	7,91	8,47
Noise Pressure Level	dB(A)	66,00	67,00	67,00	58,00	62,00	62,00
Distance	m	10,00	10,00	10,00	10,00	10,00	10,00
WORKING CONDITIONS							
Compressors type (*1)	Type	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free
Compressors number	n°	5	6	6	1	1	2
Evaporator type (*3)	Type	FL	FL	FL	FL	FL	FL
Evap. inlet water temperature	°C	12,0	12,0	12,0	12,0	12,0	12,0
Evap. outlet water temperature	°C	6,0	6,0	6,0	6,0	6,0	6,0
Condenser type (*2)	Type	S&T	S&T	S&T	S&T	S&T	S&T
Inlet water condensing temperature	°C	29,00	29,00	29,00	29,00	29,00	29,00
Outlet water condensing temperature	°C	35,00	35,00	35,00	35,00	35,00	35,00
Power circuit voltage	V/Ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
Control circuit voltage	V/Ph/Hz	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
Total power input	kW	360,5	387,6	432,0	92,9	106,8	200,6
Total running current	A	603,0	653,4	722,4	150,8	167,3	325,4
Total max current	A	1050,0	1260,0	1260,0	180,0	240,0	360,0
Total starting current	A	519,8	592,0	647,5	5,0	5,0	167,7
DIMENSIONS							
Length with cabinet	mm	6000	6000	6000	3400	3400	4000
Width	mm	1600	1600	1600	1250	1250	1600
Height	mm	2100	2100	2100	2100	2100	2100
Shipping weight	kg	8700	9180	9570	2770	3210	4770
Operating weight	kg	9259	9792	10247	2896	3375	5066
(*1) Oil Free: Centrifugal Oil Free Compressor							
(*2) S&T: Shell and tube							
(*3) FL: Flooded							

TMH for Water Tower connection

R134a

Water cooled chiller with centrifugal compressors for indoor installation

TMH 2D 1200 WT	TMH 3C 1400 WT	TMH 3C 1500 WT	TMH 3D 1800 WT	TMH 4C 2000 WT	TMH 4D 2200 WT	TMH 4D 2400 WT	TMH 5C 2500 WT			
R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a			
1200	1400	1500	1800	2000	2200	2400	2500			
213,6	254,4	278,7	320,4	371,6	397,2	426,4	464,5			
5,62	5,50	5,38	5,62	5,38	5,54	5,63	5,38			
A	A	A	A	A	A	A	A			
8,40	8,60	8,61	8,22	8,58	8,57	8,57	8,64			
66,00	63,00	63,00	67,00	65,00	69,00	69,00	65,00			
10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00			
Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free			
2	3	3	3	4	4	4	5			
FL	FL	FL	FL	FL	FL	FL	FL			
12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0			
6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0			
S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T			
29,00	29,00	29,00	29,00	29,00	29,00	29,00	29,00			
35,00	35,00	35,00	35,00	35,00	35,00	35,00	35,00			
400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50			
230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50			
213,6	254,4	278,7	320,4	371,6	397,2	426,4	464,5			
334,6	413,4	452,4	501,9	603,2	623,2	667,6	754,0			
480,0	540,0	540,0	720,0	720,0	960,0	960,0	900,0			
172,3	280,6	306,6	339,6	457,4	472,4	505,7	608,2			
4000	5700	5700	6000	6000	6000	6000	6000			
1600	1600	1600	1600	1600	1600	1600	1600			
2100	2100	2100	2100	2100	2100	2100	2100			
4980	6340	6890	7170	8390	8590	8980	8870			
5312	6729	7332	7661	8948	9201	9657	9481			

TMH for Water Tower connection



Water cooled chiller with centrifugal compressors for indoor installation

TMH for Water Tower connection		TMH 1Z 200 WT	TMH 1Z 250 WT	TMH 1Z 300 WT	TMH 1Z 350 WT	TMH 2Z 400 WT	TMH 2Z 500 WT
CHILLER PERFORMANCE							
Refrigerant		HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze
Total cooling capacity	kW	200	250	300	350	400	500
Nominal power input	kW	36,2	43,8	53,9	69,0	72,4	87,6
E.E.R.	Coef.	5,52	5,71	5,57	5,07	5,52	5,71
Energy class		A	A	A	A	A	A
E.S.E.E.R.	Coef.	7,62	7,98	8,18	8,33	8,37	8,43
Noise Pressure Level	dB(A)	58,00	58,00	58,00	58,00	62,00	62,00
Distance	m	10,00	10,00	10,00	10,00	10,00	10,00
WORKING CONDITIONS							
Compressors type (*1)	Type	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free
Compressors number	n°	1	1	1	1	2	2
Evaporator type (*3)	Type	FL	FL	FL	FL	FL	FL
Evap. inlet water temperature	°C	12,0	12,0	12,0	12,0	12,0	12,0
Evap. outlet water temperature	°C	6,0	6,0	6,0	6,0	6,0	6,0
Condenser type (*2)	Type	S&T	S&T	S&T	S&T	S&T	S&T
Inlet water condensing temperature	°C	29,00	29,00	29,00	29,00	29,00	29,00
Outlet water condensing temperature	°C	35,00	35,00	35,00	35,00	35,00	35,00
Power circuit voltage	V/Ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
Control circuit voltage	V/Ph/Hz	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
Total power input	kW	36,2	43,8	53,9	69,0	72,4	87,6
Total running current	A	63,1	74,9	90,3	113,7	126,2	149,8
Total max current	A	140,0	210,0	210,0	210,0	420,0	420,0
Total starting current	A	5,0	5,0	5,0	5,0	68,1	79,9
DIMENSIONS							
Length with cabinet	mm	4200	4200	4200	4200	4600	4600
Width	mm	1000	1000	1000	1000	1000	1250
Height	mm	1630	1630	1630	1830	1830	2100
Shipping weight	kg	2360	2470	2590	2740	3280	3530
Operating weight	kg	2509	2619	2748	2954	3507	3881
(*1) Oil Free: Centrifugal Oil Free Compressor							
(*2) S&T: Shell and tube							
(*3) FL: Flooded							

TMH for Water Tower connection

Water cooled chiller with centrifugal compressors for indoor installation

TMH 2Z 600 WT	TMH 2Z 700 WT	TMH 3Z 800 WT	TMH 3Z 900 WT	TMH 3Z 1000 WT	TMH 3Z 1100 WT	TMH 4Z 1200 WT	TMH 4Z 1300 WT	TMH 4Z 1400 WT	TMH 6Z 1600 WT	TMH 6Z 1800 WT
HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze	HFO-1234ze
600	700	800	900	1000	1100	1200	1300	1400	1600	1800
107,8	138,0	140,4	161,7	189,0	216,6	215,6	242,0	276,0	280,8	323,4
5,57	5,07	5,70	5,57	5,29	5,08	5,57	5,37	5,07	5,70	5,57
A	A	A	A	A	A	A	A	A	A	A
8,18	8,33	8,47	8,52	8,56	8,32	8,48	8,51	8,53	8,58	8,56
62,00	62,00	63,00	63,00	63,00	63,00	65,00	65,00	65,00	66,00	66,00
10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00
Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free	Oil Free
2	2	3	3	3	3	4	4	4	6	6
FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL
12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0
6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0
S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T	S&T
29,00	29,00	29,00	29,00	29,00	29,00	29,00	29,00	29,00	29,00	29,00
35,00	35,00	35,00	35,00	35,00	35,00	35,00	35,00	35,00	35,00	35,00
400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
107,8	138,0	140,4	161,7	189,0	216,6	215,6	242,0	276,0	280,8	323,4
180,6	227,4	238,5	270,9	313,5	356,4	361,2	402,0	454,8	477,0	541,8
420,0	420,0	630,0	630,0	630,0	630,0	840,0	840,0	840,0	1260,0	1260,0
95,3	118,7	164,0	185,6	214,0	242,6	275,9	306,5	346,1	402,5	456,5
4600	4600	4600	4600	4600	5000	5000	5000	5000	6000	6000
1250	1250	1250	1600	1600	1600	2250	2250	2250	2250	2250
2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100
3610	3660	4320	4400	4690	4770	5820	5890	6060	7700	7700
3961	4017	4864	4948	5271	5335	6523	6618	6805	8810	8810

TMH for Water Tower connection

HFO
1234ze

Water cooled chiller with centrifugal compressors for indoor installation

TMH for Water Tower connection		TMH 6Z 1900 WT	TMH 6Z 2000 WT	TMH 6Z 2200 WT			
CHILLER PERFORMANCE							
Refrigerant		HFO-1234ze	HFO-1234ze	HFO-1234ze			
Total cooling capacity	kW	1900	2000	2200			
Nominal power input	kW	348,6	378,0	433,2			
E.E.R.	Coef.	5,45	5,29	5,08			
Energy class		A	A	A			
E.S.E.E.R.	Coef.	8,56	8,54	8,46			
Noise Pressure Level	dB(A)	66,00	66,00	66,00			
Distance	m	10,00	10,00	10,00			
WORKING CONDITIONS							
Compressors type (*1)	Type	Oil Free	Oil Free	Oil Free			
Compressors number	n°	6	6	6			
Evaporator type (*3)	Type	FL	FL	FL			
Evap. inlet water temperature	°C	12,0	12,0	12,0			
Evap. outlet water temperature	°C	6,0	6,0	6,0			
Condenser type (*2)	Type	S&T	S&T	S&T			
Inlet water condensing temperature	°C	29,00	29,00	29,00			
Outlet water condensing temperature	°C	35,00	35,00	35,00			
Power circuit voltage	V/Ph/Hz	400-3-50	400-3-50	400-3-50			
Control circuit voltage	V/Ph/Hz	230-1-50	230-1-50	230-1-50			
Total power input	kW	348,6	378,0	433,2			
Total running current	A	580,8	627,0	712,8			
Total max current	A	1260,0	1260,0	1260,0			
Total starting current	A	489,0	527,5	599,0			
DIMENSIONS							
Length with cabinet	mm	6000	6000	6000			
Width	mm	2250	2250	2250			
Height	mm	2100	2100	2100			
Shipping weight	kg	7730	8310	8210			
Operating weight	kg	8826	9473	9340			
(*1) Oil Free: Centrifugal Oil Free Compressor (*2) S&T: Shell and tube (*3) FL: Flooded							

